MAX PLANCK GESELLSCHAFT

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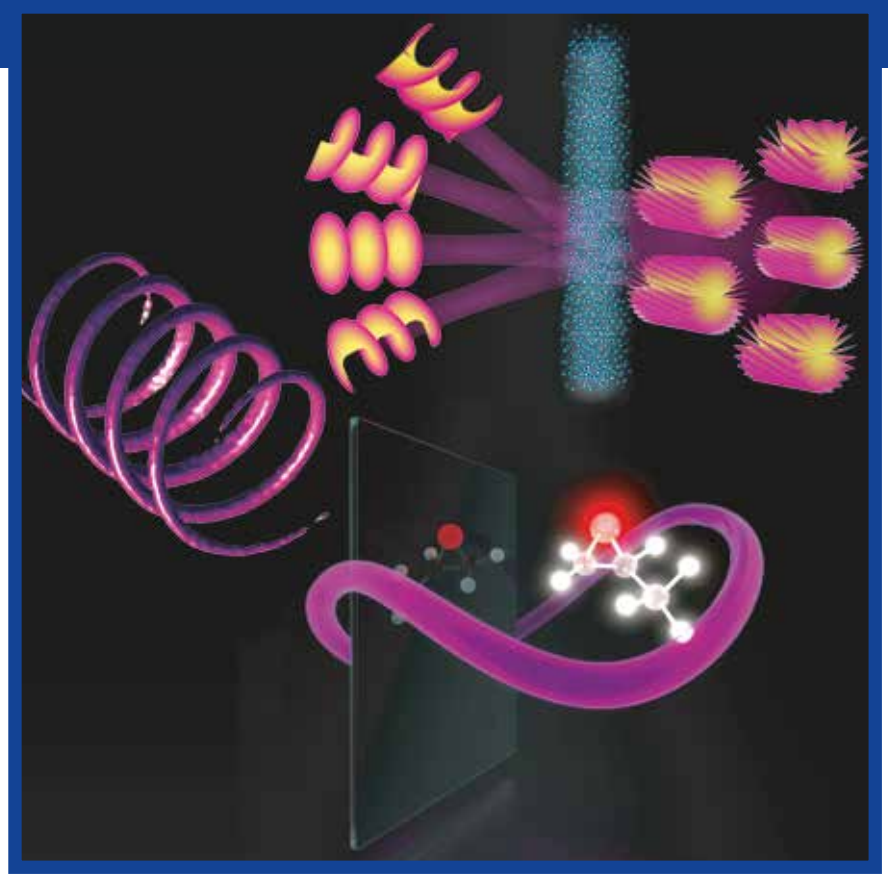
Control of Ultrafast (Attosecond and Strong Field) Processes Using Structured Light

Max Planck Institute for the Physics of Complex Systems

International Seminar & Focus Workshop 26 June - 14 July 2023

(Focus workshop: 3 - 5 July 2023)



Attosecond and strong field physics are evolving in new directions, unified by the concept of lightwave electronics: from the generation of structured pulses with tailored angular momentum properties, the control of the enantiosensitive electronic response in chiral molecules, the study of non-linear properties of solid-state materials, to the generation and application of electron matter-wave vortices.

Topics:

- ultrafast quantum dynamics with vector beams
- ultrafast lightwave electronics, valleytronics and spintronics
- chirality and topology in non-linear and ultrafast light-matter interaction
- generation, control, and application of electron matter-wave vortices
- high harmonic generation in solid-state materials and structured targets
- generation of attosecond pulses with tailored angular momentum properties
- attosecond spectroscopy of electron dynamics in solids
- ultrafast electronic and vibronic response of chiral molecules
- ultrafast magnetism driven by structured light beams
- generation of coherent structured x-rays

Members of the scientific committee:

Jean Marcel Ngoko-Djiokap
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Berlin, Germany

Scientific coordinators:

Carlos Hernández-Garcia
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Mikhail Ivanov
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Organisation:

Maria Voigt
MPIPKS Dresden

Complete list of invited speakers:

please see event's web page
www.pks.mpg.de/cupusl23

The conference will have a session dedicated to the memory and scientific contributions of Prof. Anthony Starace who was also instrumental in laying the foundation for this event.

Applications received before 15 March 2023 are considered preferentially.

We plan for an **in-person event**, with all participants attending on-site. Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited.

The registration fee for the international seminar and focus workshop is 140 Euro and should be paid by all participants. The Max Planck Institute for the Physics of Complex Systems will take care of all arrangements concerning accommodation which will be provided throughout the entire event.

Limited funding is available to partially cover travel expenses.

For further information please contact:
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We also offer individual fellowships (phd, postdoc, sabbatical). Applications are accepted continuously. For details, please check www.pks.mpg.de/visitors